L Number	Hits	Search Text	DB	Time stamp
1	5185	part near feeder	USPAT; US-P PUB; EPO; JP ;	2003/05/05 08:31
2	33	part near feeder and main adj frame	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2003/05/05 08:32
3	1	part near feeder and main adj frame and vinyl and separation and recovering and	DERWENT; IBM_TDB USPAT; US-PGPUB;	2003/05/05 08:39
		unit	EPO; JPO; DERWENT; IBM_TDB	00.03
4	1105	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:41
5	79 19 ()	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:46
6	78	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 256/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:47
7	84	Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and 29/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:57
8	9	("5700127" "5901829" "5947258" "5975835" "6112905" "6135699" "6163146" "6248967" "6354792").PN.	USPAT	2003/05/05 08:48
9	4	("4760924" "5190431" "5326218" "5772387").PN.	USPAT	2003/05/05 08:49
10 11	5	("4760924" "4763811" "4778063" "5350269" "5588797").PN.	USPAT	2003/05/05 08:50
11 12	7	("4037756" "4293998" "4401234" "4586251" "4599026").PN. ("2453077" "3291338" "3308977"	USPAT	2003/05/05 08:51 2003/05/05
	-	"3332560" "3625384" "4351108" "4401234").PN.		08:52

S arch History 5/5/03 9:00:51 AM Page 1

		1444700 004400 00444 004400 004400		0000105:55
13	1	(414/798, 221/103 , 221/11 , 221/197 , 29/809 , 414/413	USPAT; US-PGPUB;	2003/05/05 08:58
		, 414/414 , 414/421 ,	EP ; JPO;	30.00
		414/929).ccls. and (part near feeder)	DERWENT:	
		,	IBM_TDB	
14	O	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
		, 414/413	US-PGPUB;	08:59
		, 414/414 , 414/421 ,	EPO; JPO;	
		414/929).ccls. and (Hwang near Ji Hyun.in.	DERWENT;	
		and	IBM_TDB	
		Kim near Do Hyun .in. and		
		Hwang near Sang Yeon.in. and 256/\$.ccls.		
)		
		•		
15	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
		, 414/413	US-PGPUB;	08:59
		, 414/414 , 414/421 ,	EPO; JPO;	
		414/929).ccls. and (Hwang near Ji Hyun.in.	DERWENT;	
		and	IBM_TDB	
		Kim near Do Hyun .in. and		
		Hwang near Sang Yeon.in. and (part near		
		feeder)		
)		
16	1	(156/362, 156/363).ccls. and (Hwang near Ji	USPAT;	2003/05/05
		Hyun.in. and	US-PGPUB;	08:59
		Kim near Do Hyun .in. and	EPO; JPO;	
		Hwang near Sang Yeon.in. and (part near	DERWENT;	
		feeder)	IBM_TDB	
		,		
		,		
17	1	(156/362, 156/363, 29/740, 29/743).ccls. and	USPAT;	2003/05/05
		(Hwang near Ji Hyun.in. and	US-PGPUB;	09:00
		Kim near Do Hyun .in. and	EPO; JPO;	
		Hwang near Sang Yeon.in. and (part near	DERWENT;	
		feeder)	IBM_TDB	
)		
18	1	(156/362, 156/363, 29/740, 29/743,	USPAT;	2003/05/05
		221/25).ccls. and (Hwang near Ji Hyun.in.	US-PGPUB;	09:00
		and	EPO; JPO;	
		Kim near Do Hyun .in. and	DERWENT;	
		Hwang near Sang Yeon.in. and (part near	IBM_TDB	
		feeder)		
)		
				L

L Number	Hits	Search Text	DB	Time stamp
1	161	part near feeder and m unting near apparatus	USPAT; US-P PUB; EP ; JPO; DERWENT; IBM TDB	2003/05/05 13:03
2	15	part near feeder and mounting near apparatus and 414/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:10
3	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:06
4	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:08
5	55	part near feeder and mounting near apparatus and 29/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:19
6	7	("2650699" "2722309" "3524541" "3815734" "4298120" "4359157" "4627532").PN.	USPAT	2003/05/05 12:18
7	4	part near feeder and mounting near apparatus and 156/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:29
8	6	("4575995" "4606117" "4740136" "4768915" "4869393" "4952113").PN.	USPAT	2003/05/05 12:21
9	9	("2521957" "2720994" "2889123" "3270973" "3446409" "3531057" "4437232" "4607774" "4610083").PN.	USPAT	2003/05/05 12:25
10	7	("4069931" "4253906" "4274196" "4307832" "4327482" "4472218" "4476626").PN.	USPAT	2003/05/05 12:26
11	20	electronic adj part near feed r and m unting near apparatus	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:30

12	10	("1128861" "1670006" "1786867"	USPAT	2003/05/05
		"3161338" "3203608" "3750921"		12:31
		"4789418" "5163595" "5342474"		
		"5399060").PN.		
13	3	("4437129" "4735341" "4869393").PN.	USPAT	2003/05/05
				12:32
14	21	4735341.URPN.	USPAT	2003/05/05
				12:32
15	7	("4620655" "4735341" "4740136"	USPAT	2003/05/05
		"4768915" "4923089" "5020959"		12:33
		"5191693").PN.		
16	13	4620655.URPN.	USPAT	2003/05/05
1				12:34
17	0	9300887.URPN.	USPAT	2003/05/05
				12:37
18	0	part near feeder and mounting near	USPAT;	2003/05/05
		apparatus and disc and vinyl	US-PGPUB;	13:12
			EPO; JPO;	
			DERWENT;	
40	4004		IBM_TDB	2222/25/25
19	1884	29/739/.ccls.	USPAT;	2003/05/05
			US-PGPUB;	13:20
			EPO; JPO;	
			DERWENT;	
20	_	("5200002" "5456004" "5520076"	IBM_TDB USPAT	2003/05/05
20	7	("5299902" "5456001" "5539976"	USPAT	2003/05/05 13:16
		"5553376" "5713125" "5828310"		13:10
21	4	"5873691").PN. ("4889229" "4914808" "5018936"	USPAT	2003/05/05
21	-	"5235164").PN.	USPAT	13:16
22	87	29/739/.ccls. and feeder and component	USPAT;	2003/05/05
	0,	23/1 33/10013. And reeder and component	US-PGPUB;	13:20
			EPO; JPO;	13.20
			DERWENT;	
			IBM_TDB	
_	5185	part near feeder	USPAT;	2003/05/05
		Fair noar 19949.	US-PGPUB;	11:55
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
	33	part near feeder and main adj frame	USPAT;	2003/05/05
	1	•	US-PGPUB;	08:32
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	1	part near feeder and main adj frame and	USPAT;	2003/05/05
		vinyl and separation and recovering and	US-PGPUB;	08:39
		unit	EPO; JP ;	
			DERWENT;	
			IBM_TDB	

•	1105	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-P PUB;	08:41
		Hwang near Sang Yeon.in.	EP ; JP ;	
			DERWENT;	
			IBM_TDB	
-	79	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-PGPUB;	08:46
		Hwang near Sang Yeon.in. and (part near	EPO; JPO;	
		feeder)	DERWENT;	
			IBM_TDB	
-	78	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-PGPUB;	08:47
		Hwang near Sang Yeon.in. and 256/\$.ccls.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	84	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-PGPUB;	08:57
		Hwang near Sang Yeon.in. and 29/\$.ccls.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	9	("5700127" "5901829" "5947258"	USPAT	2003/05/05
		"5975835" "6112905" "6135699"		08:48
		"6163146" "6248967" "6354792").PN.		
-	4	("4760924" "5190431" "5326218"	USPAT	2003/05/05
		"5772387").PN.		08:49
-	5	("4760924" "4763811" "4778063"	USPAT	2003/05/05
		"5350269" "5588797").PN.		08:50
-	5	("4037756" "4293998" "4401234"	USPAT	2003/05/05
		"4586251" "4599026").PN.		08:51
-	7	("2453077" "3291338" "3308977"	USPAT	2003/05/05
		"3332560" "3625384" "4351108"		08:52
_	1	"4401234").PN. (414/798, 221/103 , 221/11 , 221/197 , 29/809	HCDAT.	2002/05/05
-			USPAT;	2003/05/05
		, 414/413 , 414/414 , 414/421 ,	US-PGPUB; EPO; JPO;	08:58
		414/929).ccls. and (part near feeder)	1	
		TIWOLOJICCISI AND (PART NEAR TEEDER)	DERWENT; IBM_TDB	
_	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
	"	, 414/413	US-PGPUB;	08:59
		, 414/414 , 414/421 ,	EPO; JPO;	30133
		414/929).ccls. and (Hwang near Ji Hyun.in.	DERWENT;	
		and	IBM_TDB	
		Kim near Do Hyun .in. and		
	1	Hwang near Sang Yeon.in. and 256/\$.ccls.		
)		
		'		

-	0	(414/798, 221/103, 221/11, 221/197, 29/809, 414/413 , 414/414, 414/421, 414/929).ccls. and (Hwang near Ji Hyun.in. and Kim near D Hyun.in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EP ; JP ; DERWENT; IBM_TDB	2003/05/05 08:59
-	1	(156/362, 156/363).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 08:59
-	1	(156/362, 156/363, 29/740, 29/743).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00
-	1	(156/362, 156/363, 29/740, 29/743, 221/25).ccls. and (Hwang near Ji Hyun.in. and Kim near Do Hyun .in. and Hwang near Sang Yeon.in. and (part near feeder)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 09:00

	Title	Current OR	Current XRef
1	Parts arranging method and parts mounting apparatus	361/600	
2	Electronic parts-feeding tray feeder and electronic parts-feeding method	414/331.1	414/222.01; 414/286; 414/331.11; 414/416.08; 414/806; 414/811
3	Electronic-parts mounting apparatus	29/740	29/721; 29/739; 29/741; 29/743; 29/DIG.44; 414/737
4	Manual electronic-part mounting apparatus and method	156/565	156/297; 156/299; 156/573
5	Method of and apparatus for mounting electronic parts	29/836	29/709; 29/710; 29/740; 29/743; 29/834; 700/108; 700/121
6	Manual electronic-part mounting method	427/96	427/208.6; 427/208.8; 427/261; 427/407.1; 427/430.1
7	Bulk feeder	221/163	221/167; 221/200; 221/254
8	Electronic-parts mounting apparatus	29/740	29/721; 29/739

	Retrieval Classif	Inventor
1		Ohuchi, Atsushi et al.
2		Yamauchi, Jun et al.
3		Kinoshita, Yoichi et al.
4		Sugiyama, Osamu
5		Tsubouchi, Yuzo et al.
6		Sugiyama, Osamu
7		Saho, Hidehiro et al.
8		Munezane, Takashi et al.

	Title	Current R	Current XRef
9	Manual Electronic-part m unting apparatus	156/556	118/216; 118/256; 118/500; 156/578; 29/740; 29/840
10	Method and apparatus for mounting parts with pick-up mistake detection and storage of mistake rate	29/833	29/407.04; 29/714; 29/721; 29/743; 29/759; 29/832; 29/834
11	Tape feeder with controlled feed motion	226/122	226/159; 226/164; 226/165
12	Method of and apparatus for mounting electronic parts on a board	438/15	438/14
13	Apparatus for mounting electronic parts and a method thereof	29/836	29/740; 29/741; 29/743; 29/DIG.44; 414/752.1
14	MOUNTING STRUCTURE OF PARTS FEEDER IN ELECTRONIC PARTS MOUNTING APPARATUS		
15	ELECTRONIC PARTS MOUNTING APPARATUS		
16	ELECTRONIC PARTS MOUNTING APPARATUS AND PARTS FEEDER		
17	ROTARY HEAD TYPE ELECTRONIC COMPONENT MOUNTING APPARATUS		29/739
18	Apparatus for mounting lectronic components on circuit boards		

	Retrieval Classif	Inventor
9		Sugiyama, Osamu
10		Tsubouchi, Yuzo et al.
11		Kanai, Takeshi
12		Tsubouchi, Yuzo et al.
13		Kashiwagi, Yasuhiro et al.
14		SAHO, HIDEHIRO
15	-	TAGUCHI, KATSUHIKO et al.
16		HONDA, TAKAYUKI et al.
17		KOYAMA, MASAHIDE
18		KINOSHITA, YOICHI et al.

	Title	Current R	Current XRef
19	Electronic-parts mounting apparatus for automatically mounting e.g. parts on circuit board		
20	Mounting appts. for small size electronic parts - comprises feeder supplying PCB to X=Y table, parts feeder, and pneumatic rotating device which turns suction head		

	Retrieval Classif	Invent r
19		KINOSHITA, Y et al.
20		KIM, H et al.

	Title	Current R	Current XRef
1	Equipment and method for mounting electronic comp nents	29/833	29/740; 29/741; 29/755; 29/759; 29/832
2	Tape type work conveying method and conveying apparatus	29/429	156/324; 156/344; 156/350; 156/351; 156/584; 198/347.3; 198/803.14; 29/426.3; 29/709; 29/714; 414/416.08; 414/811; 53/453
3	Apparatus and method for carrying substrate	29/729	
4	Method and apparatus for mounting electronic device	29/832	29/739; 29/743
5	Circuit board fixing table, circuit board fixing method and electronic component mounting apparatus	29/743	29/832; 414/226.04
6	Parts mounting method and parts mounting apparatus	29/832	29/740; 29/743
7	Automatic electronic parts mounting apparatus	29/740	29/739
8	Mounting apparatus of electronic components and m unting methods of the same	29/832	29/740; 29/834

	Retrieval Classif	Invent r
1		Shiota, Takayuki
2		Umetsu, Sachio
3		Ogimoto, Shinichi
4		Ogimoto, Shinichi
5		Miura, Izumi et al.
6		Kawase, Takeyuki et al.
7		Kyoutani, Takayoshi
8		Horigome, Naoyuki

	Title	Current R	Current XRef
9	Printed circuit board transferring apparatus of a surface mounter	29/740	29/743
10	Electronic component mounting method	29/832	198/465.1; 198/465.3; 198/817; 29/429; 29/430; 29/740; 29/741; 29/742; 29/784
11	Mounting apparatus of electronic components and mounting methods of the same	29/832	29/712; 29/721; 29/740; 29/743; 29/833
12	Component mounting apparatus with tray parts feeder	29/740	29/742; 414/331.14; 414/416.01; 414/416.03
13	Electronic-parts mounting apparatus	29/740	29/721; 29/739; 29/741; 29/743; 29/DIG.44; 414/737
14	Electronic component mounting apparatus	382/151	29/759
15	Method of and apparatus for mounting electronic parts	29/836	29/709; 29/710; 29/740; 29/743; 29/834; 700/108; 700/121
16	Apparatus for and method of m unting electronic parts	29/832	

	Retrieval Classif	Inventor
9		Hwang, Ji Hyun
10		Hidese, Wataru
11		Horigome, Naoyuki
12		Hiramoto, Koji et al.
13		Kinoshita, Yoichi et al.
14		Hachiya, Eiichi et al.
15		Tsubouchi, Yuzo et al.
16		Sakaguchi, Shinsuke

	Title	Current R	Current XRef
17	Electronic-parts mounting apparatus	29/740	29/721; 29/739
18	Method and apparatus for mounting parts with pick-up mistake detection and storage of mistake rate	29/833	29/407.04; 29/714; 29/721; 29/743; 29/759; 29/832; 29/834
19	Mounting apparatus of electronic components and mounting methods of the same	29/833	29/712; 29/721; 29/740; 29/743; 294/64.1; 356/152.2; 414/737; 414/749.3; 702/104; 702/94; 901/47
20	Line of electronic part mounting apparatuses and method for mounting electronic parts	29/832	29/740; 29/742; 29/836
21	Mounting apparatus having a two-dimensional linear motor	29/740	29/712; 29/742; 29/743; 29/744; 29/759; 72/446; 72/482.9
22	Apparatus for mounting electronic components	29/740	29/708; 29/709; 29/712; 29/742; 29/743; 294/64.1; 414/737

	Retrieval Classif	Inventor
17		Munezane, Takashi et al.
18		Tsubouchi, Yuzo et al.
19		Kashiwagi, Yasuhiro et al.
20		Higashi, Masayuki
21		Nomura, Hiroaki
22		Itoh, Hiroshi

	Title	Current R	Current XRef
23	Method and device for adjusting nozzle height for recognition in surface mounter	1	29/712; 29/743; 29/834; 29/DIG.44; 356/614; 414/730; 414/737; 901/40; 901/46
24	Elastic part holder for use in mounting apparatus	29/754	29/450; 29/785
25	Tool for surface mounting device head	29/743	29/740
26	Vibratory feeder trays and synchronous mass production apparatus for circuit board fabrication	29/740	198/763; 29/759; 29/821; 29/823
27	Electronic parts-mounting apparatus	29/740	29/741; 29/743; 294/64.1
28	Apparatus for mounting electronic parts and a method thereof	29/836	29/740; 29/741; 29/743; 29/DIG.44; 414/752.1
29	Automatic electronic parts-mounting apparatus	29/740	29/743; 29/DIG.44; 414/737
30	Parts mounting sequence determination method and apparatus	29/832	29/564.1; 29/739; 29/740; 29/742; 700/114
31	Electronic parts mounting apparatus	307/116	29/407.04; 29/720; 29/760
32	Electronic c mponent feed system	29/740	206/714; 414/416.08

	Retrieval Classif	Inventor
23		Hanamura, Naoki
24		Ito, Takashi et al.
25		Yi, Yun Hyung
26		Ma, Abraham C. et al.
27		Nushiyama, Shuji et al.
28	_	Kashiwagi, Yasuhiro et al.
29		Kano, Yoshinori et al.
30		Tsukasaki, Hitoshi et al.
31		Shitanda, Motoshi et al.
32		Takahashi, Tetsuo et al.

	Title	Current R	Current XRef
33	Parts mounting apparatus	29/712	29/739; 29/743; 29/DIG.44
34	Assembling apparatus	29/739	221/25
35	Truck lid mounting apparatus	29/281.5	
36	Apparatus for mounting a balance weight on a tire wheel	29/705	29/281.1; 29/802; 29/818; 301/5.21; 73/458
37	Part inserting apparatus and method for use	29/838	140/105; 29/566.3; 29/741
38	Electronic component mounting apparatus	29/740	29/705; 29/720; 700/303; 702/97; 901/46
39	Apparatus for and method of automatically mounting electronic component on printed circuit board	29/833	221/289; 269/903; 29/740; 29/840
40	Method and apparatus for producing linear body with waterproof plug	29/854	29/235; 29/241; 29/433; 29/450; 29/759; 29/809
41	Electric parts mounting apparatus and electric parts mounting method	29/740	29/743; 29/759; 29/834; 294/64.1
42	Table driving apparatus	29/740	74/479.01
43	Cassette for storing a plurality of electronic component chips	206/723	220/350; 221/285; 221/306; 29/740; 29/809

	Retrieval Classif	Inventor
33		Izume, Takatomo et al.
34		Hirai, Hiroyuki et al.
35		Uesugi, Kyohei
36		Matumoto, Sigeru et al.
37		Aoki, Yasushi et al.
38		Toi, Hiroshi
39		Takahashi, Kuniaki et al.
40		Kato, Saṅae
41		Nakayama, Susumu et al.
42		Isono, Tadao et al.
43		Yamamoto, Shinya et al.

	Title	Current R	Current XRef
44	Apparatus for mounting electric parts	29/740	209/573; 221/211; 221/277; 29/593; 29/759; 414/744.1
45	Cassette storing a plurality of electronic component chips including means for securing the cassette to a hopper	206/701	221/174; 221/186; 221/285; 221/306; 29/740
46	Circuit element mounting system and method	700/121	29/703; 29/709; 29/741; 716/19
47	Automatic tension spring mounting device	29/33K	198/430; 29/225; 29/227; 29/700; 29/822
48	Tension spring takeout device in an automatic tension spring mounting apparatus	29/809	198/430; 29/227; 414/226.01; 414/783
49	Apparatus for mounting chip type circuit elements on printed circuit boards	29/740	29/759; 29/840
50	Automatic mounting apparatus for chip components	29/740	29/759; 29/840
51	Mounting apparatus for leadless electronic parts	29/740	29/840

	Retrieval Classif	Inventor
44		Fujishiro, Keisuke
45		Hamuro, Mitsuro et al.
46		Takahashi, Tetsuo et al.
47		Yajima, Yutaka
48		Yajima, Yutaka
49	-	Harigane, Kotaro et al.
50		Watanabe, Yoshitsugu et al.
51	-	Fujita, Takayuki et al.

,	Title	Current OR	Current XRef
52	Apparatus for mounting chip type circuit elements on printed circuit boards	156/538	156/539; 156/556; 156/566; 156/567; 156/584; 221/210; 221/211; 29/729; 29/738; 29/740; 29/743; 29/759; 29/799; 414/799
53	ROTARY HEAD TYPE ELECTRONIC COMPONENT MOUNTING APPARATUS		29/739
54	FRAME FEEDING DEVICE FOR SEMICONDUCTOR MOUNTING APPARATUS		29/25.01; 257/E21.499
55	Automatic electronic parts mounting apparatus.	·	29/832

	Retrieval Classif	Invent r
52		Harigane, Kotaro et al.
53		KOYAMA, MASAHIDE
54		TAKAHASHI, FUMIO
55		KANO, YOSHINORI et al.

L Number	Hits	Search Text	DB	Time stamp
1	161	part near feeder and mounting near apparatus	USPAT; US-P PUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 11:58
2	15	part near feeder and mounting near apparatus and 414/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:10
3	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:06
4	19	("3279044" "4515507" "4606117" "4794689" "4807356" "4860438" "4951388" "4979286" "5058263" "5060366" "5070598" "5136776" "5255429" "5290134" "5421696" "5491888" "5544411" "5864944" "6000123").PN.	USPAT	2003/05/05 12:08
5	55	part near feeder and mounting near apparatus and 29/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:19
6	7	("2650699" "2722309" "3524541" "3815734" "4298120" "4359157" "4627532").PN.	USPAT	2003/05/05 12:18
7	4	part near feeder and mounting near apparatus and 156/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:29
9	6 9	("4575995" "4606117" "4740136" "4768915" "4869393" "4952113").PN. ("2521957" "2720994" "2889123"	USPAT	2003/05/05 12:21 2003/05/05
10	7	"3270973" "3446409" "3531057" "4437232" "4607774" "4610083").PN. ("4069931" "4253906" "4274196" "4307832" "4327482" "4472218"	USPAT	12:25 2003/05/05 12:26
11	20	"4476626").PN. electronic adj part near feeder and mounting near apparatus	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/05/05 12:30

12	10	("1128861" "1670006" "1786867"	USPAT	2003/05/05
		"3161338" "3203608" "3750921"		12:31
		"4789418" "5163595" "5342474"		
		"5399060").PN.		
13	3	("4437129" "4735341" "4869393").PN.	USPAT	2003/05/05
				12:32
14	21	4735341.URPN.	USPAT	2003/05/05
				12:32
15	7	("4620655" "4735341" "4740136"	USPAT	2003/05/05
		"4768915" "4923089" "5020959"		12:33
		"5191693").PN.		
16	13	4620655.URPN.	USPAT	2003/05/05
				12:34
17	0	9300887.URPN.	USPAT	2003/05/05
				12:37
-	5185	part near feeder	USPAT;	2003/05/05
			US-PGPUB;	11:55
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	33	part near feeder and main adj frame	USPAT;	2003/05/05
			US-PGPUB;	08:32
		į.	EPO; JPO;	
		u u	DERWENT;	
	_		IBM_TDB	
-	1	part near feeder and main adj frame and	USPAT;	2003/05/05
		vinyl and separation and recovering and	US-PGPUB;	08:39
		unit	EPO; JPO;	
			DERWENT;	
	4405		IBM_TDB	2000/05/05
-	1105	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05 08:41
		Kim near Do Hyun .in. and Hwang near Sang Yeon.in.	US-PGPUB;	08:41
		Hwang hear Sang Teon.in.	EPO; JPO;	
			DERWENT;	
-	79	Hwang near Ji Hyun.in. and	IBM_TDB USPAT;	2003/05/05
-	"3	Kim near Do Hyun .in. and	US-PGPUB;	08:46
		Hwang near Sang Yeon.in. and (part near	EPO; JPO;	
		feeder)	DERWENT;	
		,	IBM_TDB	
-	78	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-PGPUB;	08:47
		Hwang near Sang Yeon.in. and 256/\$.ccls.	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
		Marana and H. Marana		0000/07/07
•	84	Hwang near Ji Hyun.in. and	USPAT;	2003/05/05
		Kim near Do Hyun .in. and	US-PGPUB;	08:57
		Hwang near Sang Yeon.in. and 29/\$.ccls.	EPO; JPO;	
			DERWENT;	
	ı		IBM_TDB	

Search History 5/5/03 12:37:22 PM Page 2

	9	("5700127" "5901829" "5947258"	USPAT	2003/05/05
_		"5975835" "6112905" "6135699"	COPAT	08:48
		"6163146" "6248967" "6354792").PN.		00.40
_	4	("4760924" "5190431" "5326218"	USPAT	2003/05/05
-	_	"5772387").PN.	COPAT	08:49
_	5	("4760924" "4763811" "4778063"	USPAT	2003/05/05
•	1	"5350269" "5588797").PN.	USPAI	08:50
	5	3350269 3566797).FN. ("4037756" "4293998" "4401234"	USPAT	2003/05/05
•	3	(4037730	USPAI	
	7	4366231 4399026).FN. ("2453077" "3291338" "3308977"	LICOAT	08:51
•	'	•	USPAT	2003/05/05
		"3332560" "3625384" "4351108"		08:52
		"4401234").PN.		2222/22/22
	1	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
		, 414/413	US-PGPUB;	08:58
		, 414/414 , 414/421 ,	EPO; JPO;	
		414/929).ccls. and (part near feeder)	DERWENT;	
			IBM_TDB	
ı	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
		, 414/413	US-PGPUB;	08:59
		, 414/414 , 414/421 ,	EPO; JPO;	
		414/929).ccls. and (Hwang near Ji Hyun.in.	DERWENT;	
		and	IBM_TDB	
		Kim near Do Hyun .in. and		
		Hwang near Sang Yeon.in. and 256/\$.ccls.		
)		
•	0	(414/798, 221/103 , 221/11 , 221/197 , 29/809	USPAT;	2003/05/05
		, 414/413	US-PGPUB;	08:59
		, 414/414 , 414/421 ,	EPO; JPO;	
		414/929).ccls. and (Hwang near Ji Hyun.in.	DERWENT;	
		and	IBM_TDB	
		Kim near Do Hyun .in. and		
		Hwang near Sang Yeon.in. and (part near		
		feeder)		
)		
•	1	(156/362, 156/363).ccls. and (Hwang near Ji	USPAT;	2003/05/05
		Hyun.in. and	US-PGPUB;	08:59
		Kim near Do Hyun .in. and	EPO; JPO;	
		Hwang near Sang Yeon.in. and (part near	DERWENT;	
		feeder)	IBM_TDB	
)		

•	1	(156/362, 156/363, 29/740, 29/743).ccls. and	USPAT;	2003/05/05
		(Hwang near Ji Hyun.in. and	US-P PUB;	09:00
		Kim near Do Hyun .in. and	EP ; JP ;	
		Hwang near Sang Yeon.in. and (part near	DERWENT;	
		feed r)	IBM_TDB	
)		
	1	(156/362, 156/363, 29/740, 29/743,	USPAT;	2003/05/05
		221/25).ccls. and (Hwang near Ji Hyun.in.	US-PGPUB;	09:00
		and	EPO; JPO;	
		Kim near Do Hyun .in. and	DERWENT;	
		Hwang near Sang Yeon.in. and (part near	IBM_TDB	
		feeder)		
		1 X	i	Į.

US-PAT-NO:

6370764

DOCUMENT-IDENTIFIER:

US 6370764 B1

TITLE:

Electronic-parts mounting apparatus

DATE-ISSUED:

April 16, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE COUNTRY

Kinoshita; Yoichi

Osaka

N/A

JP

Osaka

N/A

Munezane; Takashi N/A

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JΡ

JΡ

JΡ

Tanaka; Kunio

Osaka

N/A N/A

Nakatsuka; Shigeki

N/A N/A Kyoto

Nagaya; Toshihiko

Osaka

N/A

N/A

INT-CL:

[07] H05K003/30

US-CL-ISSUED:

29/740, 29/739 , 29/721 , 29/741 , 29/743

, 29/DIG.44

, 414/737

US-CL-CURRENT:

29/740, 29/721 , 29/739 , 29/741 , 29/743

, 29/DIG.44

, 414/737

FIELD-OF-SEARCH:

29/739-741; 29/832 ; 29/743 ; 29/DIG.44 ;

29/721 ; 29/759

; 414/737

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

3279044

October 1966

Roper

29/739

N/A

N/A

4515507	41.4.400.5	May 1985	Asai et al.
4606117	414/226	N/A August 1986	N/A Takahashi et al.
4794689	29/740	<u>N/A</u> January 1989	N/A Seno et al.
4807356	29/740	N/A February 1989	N/A Maruyama et al.
4860438	29/740	N/A August 1989	N/A Chen
4951388	29/740	N/A August 1990	N/A Eguchi et al.
	29/832	N/A December 1990	N/A
4979286	29/740	N/A	Nakayama et al.
5058263	29/740	October 1991 <u>N/A</u>	Corbeij et al. N/A
5060366	29/739	October 1991 N/A	<u>Asai</u> et al. N/A
5070598	29/705	December 1991 N/A	Itagaki et al. N/A
5136776	29/740	August 1992 N/A	Yamagisawa N/A
5255429		October 1993	Nishi et al.
5290134	29/720	March 1994	N/A Baba
5421696	414/404	N/A June 1995	N/A Stephan et al.
5491888	414/751	<u>N/A</u> February 1996	N/A Otha et al.
5544411	N/A	N/A August 1996	N/A Kano et al.
5864944	29/740	<u>N/A</u> February 1999	N/A Morita et al.
	N/A	N/A December 1999	N/A Munezane et al.
3000123	29/740	N/A	N/A
	GN-PAT-NO	FOREIGN PUBN-DATE	PATENT DOCUMENTS COUNTRY
US- 0664 6 0664 6	65	July 1995 July 1995	EP EP
ART-UNIT:		3729	

ΑF

PRIMARY-EXAMINER: Vo; Peter

4620655 US-PAT-NO:

US 4620655 A DOCUMENT-IDENTIFIER:

Apparatus for supplying taped parts TITLE:

November 4, 1986 DATE-ISSUED:

INVENTOR-INFORMATION:

CITY NAME

ZIP CODE COUNTRY STATE

Yokosuka Fujita; Yasuhiro

N/A N/AJP

[04] B65H02O/OO, H05K013/O2 , H05K0O3/OO INT-CL:

US-CL-ISSUED: 226/109, 29/825 , 29/829 , 221/186 ,

221/197 , 221/210

, 226/115 , 226/120

226/109, 221/186 , 221/197 , 221/210 , US-CL-CURRENT:

226/115 , 226/120

, 29/825 , 29/829

FIELD-OF-SEARCH: 226/109; 226/108; 226/96; 226/111;

226/112 ; 226/115-117

; 226/120 ; 221/210 ; 221/186 ; 221/211 ;

221/187 ; 221/27-29

; 221/197 ; 29/829 ; 29/825 ; 29/842

FOREIGN PATENT DOCUMENTS

PUBN-DATE COUNTRY FOREIGN-PAT-NO

US-CL

46659 April 1978 JΡ 79467 June 1979 JΡ September 1980 JΡ 118698 39599 March 1982 JΡ

245 ART-UNIT:

PRIMARY-EXAMINER: Petrakes; John

US-PAT-NO: 5865359

DOCUMENT-IDENTIFIER: US 5865359 A

TITLE: Tape feeder with controlled feed

motion

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Kanai; Takeshi Gunma-ken

N/A N/A JP

INT-CL: [06] B65H02O/00

US-CL-ISSUED: 226/122, 226/159, 226/164, 226/165

US-CL-CURRENT: 226/122, 226/159 , 226/164 , 226/165

FIELD-OF-SEARCH: 226/122; 226/158; 226/159; 226/160;

226/162 ; 226/163

; 226/164 ; 226/165

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO ISSUE-DATE PATENTEE-NAME

US-CL

February 1915 Fisher 1128861 226/165 N/A N/A May 1928 1670006 Prym N/A 226/165 N/A 1786867 December 1930 Rosenthal · 226/165 N/A N/A 3161338 December 1964 Grimm 226/163 N/A N/A 3203608 August 1965 Mogolis 226/165 N/A N/A August $\overline{1973}$ 3750921 Bundschuh N/A 226/122 N/A

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	226/162	N/A	N/A
5163595		November 1992	Messner
	226/160	N/A	N/A
5342474		August 1994	Mohara et al.
	156/584	<u>N/A</u>	N/A
5399060		March 1995	Richert
	226/165	N/A	N/A

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FOREIGN-PAT-NO	PUBN-DATE		COUNTRY
US-CL			
5-90786	September	1991	JP
226/122	_		
5-175687	July 1993		JP
0722553	January 19	955	GB

ART-UNIT: 362

PRIMARY-EXAMINER: Marmor; Charles A.

ASSISTANT-EXAMINER: Kaness; Matthew A.